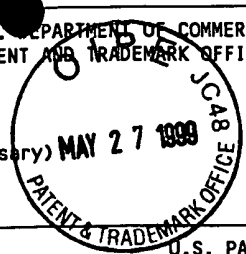


SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08640/018001		SERIAL NO. 09/294,563	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Kurt E. Schmidt et al.			
(37 CFR 1.98(b))				FILING DATE April 20, 1999		GROUP 2857	



U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
pn	AA	5	6	9	9	4	0	2	12/16/1997	Bauer et al.	379	26	
pn	AB	5	8	8	1	1	3	0	3/9/99	Zhang	379	6	
	AC												
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	AE												
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	AK												

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION									
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
							YES	NO	
	AL								
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	AN								
	AO								
	AP								

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)									
m	AQ	Co-Pending U.S. Patent Application Serial No. 09/285,954 filed April 2, 1999 which was filed from							
		U.S. Provisional Patent Application Serial No. 60/106,845 filed 11/3/98.							
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		TECHNOLOGY CENTER 2800							
	AS	RECEIVED							
EXAMINER					DATE CONSIDERED				
pn					AUG 18 1999 Group 2700 4/3/00				

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
08640/018001

SERIAL NO.
09/294,563

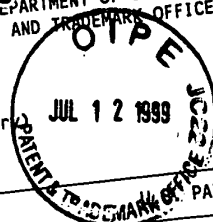
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT
Kurt E. Schmidt et al.

GROUP
2857

FILING DATE
April 20, 1999

(37 CFR 1.98(b))



EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
pn	AA	5 1 5 7 3 3 6	10/20/1992	Crick	324	613	
pn	AB	5 3 0 2 9 0 5	4/12/1994	Crick	324	613	
pn	AC	5 4 3 6 9 5 3	7/25/1995	Nilson	379	27	
pn	AD	5 8 6 4 6 0 2	1/26/1999	Needle	379	6	
	AE						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION				CLASS	SUBCLASS	TRANSLATION	
DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE				YES	NO
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AM							
AN							
AO							
AP							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

pn	AQ	Goralski, "xDSL LOOP QUALIFICATION AND TESTING", IEEE Communications Magazine, May 1999.
pn	AR	"LOOP QUALIFICATION, PREREQUISITE FOR VOLUME xDSL DEPLOYMENT?", The TeleChoice Report On xDSL, Vol. Two, No. 3, March 1997.
pn	AS	Woloszynski, "IT'S HERE", Bellcore Exchange Magazine, 6/98.

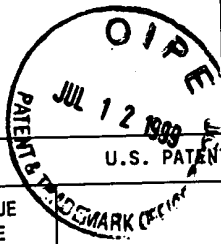
EXAMINER *pn* DATE CONSIDERED 11/3/00

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))		APPLICANT Kurt E. Schmidt et al.	
		FILING DATE April 20, 1999	GROUP 2857



U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION								
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	BN							
	BO							
	BP							

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JUL 19 1999

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
<i>PN</i>	BQ	Stewart, "TESTING ADSL: THE EASIER, THE BETTER", America's Network, 12/15/1998.
<i>PN</i>	BR	Hekimian Product Information Release, "INTRODUCING HEKIMIAN'S COMPREHENSIVE ADSL TEST SOLUTION"
<i>PN</i>	BS	Harris Communications, National Communications Forum Presentation, Chicago, IL, 10/5/98.

EXAMINER <i>P.N</i>	DATE CONSIDERED <i>11/3/00</i>
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				FILING DATE April 20, 1999		GROUP 2857	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	CK						
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CL						
	CM						
	CN						
	CO						
	CP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
<i>bn</i>	CQ	Turnstone Systems, Inc., Product Literature & Presentation at Turnstone Systems, Inc., September 1992.					
EXAMINER <i>bn</i>				DATE CONSIDERED 11/3/00			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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